AUTHOR'S INDEX

Abukurah, A. R.: 68-69
Airaksinen, M. M.: (see Rosenberg)
Arias, N. H.: (see Devoto)
Armstrong, W. D.: (see Messer)
Auermann, E.: 78-83

Baird, C. L.: (see Abukurah)
Balazova, G.: 151-162
Bisch, Ad: (see Garrec)
Blanke, R. V.: (see Abukurah)
Bligny, R.: (see Garrec)
Bordoni, N. E.: (see Devoto)
Brodsky, O. B.: (see Fensenko)
Buffa, P.: 224-245

Carlson, C. E.: 127-37
Chander, R.: (see Jolly)
Chang, C. W.: 162-178
Clubb, C. W.: 162-178
Costa-Tiozzo, R.: (see Buffa)

Day, T. K.: 119-120
Devoto, F. C. H.: 67
Donadio, Jr., J. V.: (see Juncos)
Draper, H. H.: (see Krishna Rao)

Egyed, M. N.: 215-224

Fesenko, N. P.: 122
Fourcy, A.: (see Garrec)

Garber, K.: 33-40
Garrec, J. P.: 73-78
Gatiyatullina, E. Z.: (see Guleva)
Gerdes, R. A.: (see Mitchell)
Golusinski, J.: 138-142
Guarriero-Bobyleva, V.: (see Buffa)
Guleva, E. A.: 179-181

Hauskrecht, I.: 154-162
Havivi, E.: 253

Imai, Yoshitsugu: 248-251

Johnson, W. J.: (see Jowsey)
Jolly, S. S.: 4-18; 106-112

Jowsey, J.: 183-184
Juncos, L. I.: 64-65

Kelly, P. J.: (see Jowsey)
Kornegay, D.: 19-32
Krishna Rao, G. V. G.: 118-119
Kwant, G. W.: 49-56

Malchesky, P. S.: 84-93
Meigs, J. W.: 254
Messer, H. H.: 66; 181-183
Miller, G. W.: 203-215
Mitchell, B.: 113-117
Moser, A. M.: (see Abukurah)
Myers, G. S.: 185-186

Navara, J.: (Hauskrecht)
Nose, Y.: (see Malchesky)

Pennington, S.: (see Kornegay)
Perrotto, B. M.: (see Devoto)
Peters, R. A.: 189-194
Plotko, E. G.: (see Guleva)
Powell-Jackson, P. R.: (see Day)
Prasad, R.: (see Jolly)
Psenak, M.: (see Miller)

Randall, Jr., R. E.: (see Abukurah)
Rao, B. S. Narasinga: (see Reddy)
Reddy, G. Sri Ranga: 251-252
Rosenberg, P. H.: 41-48
Rüfer, R.: 94-100

Sachs, G.: (see Spitzer)
Setter, J. G.: (see Abukurah)
Sharma, R.: (see Jolly)
Singer, L.: (see Messer)
Sowinski, H.: (see Golusinski)
Spitzer, H. L.: 101-106
Steinfeld, J. L.: 69-70
Szmeja, Z.: (see Golusinski)

Taves, D. R.: (see Jowsey)
Teotia, M.: 143-151
Teotia, S. P. S.: (see Tetotia, M.)
Thomson, H. M.: (see Ziegelbecker)

Tobey, R. E.: 121-122
Ts'ao, K.: (see Krishna Rao)

Volkova, V. M.: (see Fesenko)

Ward, P. F. V.: 194-202
Wegner, M.: (see Messer)
Wong, K.: (see Messer)

Yu, M. H.: (see Miller)

Ziegelbecker, R.: 57-63

SUBJECT INDEX

Acacia Georginae, 134, 189, 204, 247
Acetate, 210
Acetoacetate, 233
Acetyl CoA, 196, 228, 229
Aconitase, 194, 204, 205, 220, 226
Aconitate hydratase, 230
Adenosine triphosphate, 237, 240
Adenyl cyclase, 19-32
  action of fluoride on, 21, 22, 23
Adolescents, fluoride balance studies, 81
Alkaline phosphatase in fluorosis, 147
Aluminum plants, 139
Ammonia, 36
Anesthetics, fluorinated, 41-47
Aorta, fluoride levels, 70
ATP in corn roots, 175

Blood substitutes, 71, 72, 84
  gases in artificial ventilation, 97, 98
  oxygenation, extracorporeal, 87,88, 90
Bone matrix
  in fluoride intoxication, 251, 252
Bones
  biochemistry in fluorosis, 150
  histology in fluorosis, 146, 149
Breathing, liquid, 72, 94-100
  alveolar gas exchange in, 99
  long-term effect, 101

Calcium
  balance in fluorosis, 12, 14, 17, 149, 150, 199
  diet
    excretion in fluorosis, 147
    fluoride retention, 252
  effect on
    adenyl cyclase, 27
    bone resorption, 184
    bones, 113-117, 118
    fluoride metabolism, 252
Carbohydrate metabolism, 236, 253
Cisaconitate, 230
Citrate
  in
    fluoroacetate poisoning, 247
    lettuce, 196, 204, 205, 210
Citrate
  in (cont.)
    rat tissue, 227-23, 231, 240
  pyruvate synthesis, 230
Citrate synthase, 228
Citric acid, 191, 205, 219, 240
Conifers, fluoride content, 130, 131
Corn seedling,
  fluoride effect, 163, 164
Crested wheat grass, 210
Cryolite, mutagenic effect, 180, 181
Culemborg, caries incidence, 49-63

Defluorination, 17
Dental caries
  in Japan, 248-251
  related to fluoride in water, 109, 111, 248-251
    skeletal fluorosis, 109, 110
Dental fluorosis, 64, 104
  distribution in children, 83, 108
  experimental, 153
  in Punjab, 56, 107-110
Dichapetalum cymosum, 189, 204, 247
Dietary survey in Punjab, 13, 15, 16
Drosophila melanogaster, 113-117

Embolism, pulmonary, 71
Enflurane, 44
Essentiality of fluoride, 1-3, 66, 67, 181, 182
Exostosis in
  in fluorosis, 6, 252

Fatty acid metabolism
  affected by F^-, 253
Fertility
  fluoride effect on, 17, 66, 67, 180, 181
Fir, fluoride in needles, 73
Fluoridation in Holland, 49
Fluoride
  airborne, 40
  analysis, 74
  balance studies, 80, 81
  blood levels in halothane anesthesia, 121
  distribution in leaves, 73, 76, 77

Fluoride (cont.)
effect on
bone density, 119, 184
bone resorption, 184
corn seedlings, 163, 164
goiter, 120
hematocrit, 182
HPMI, 158
leaves, 33
phytase, 159
placenta, 67
essentiality of, 1-3, 66, 67, 181, 182
genetic effect, 17, 66, 67, 180, 181
in
aorta, 70
bones, 150-153
conifers, 34, 74, 130, 131, 132
firs, 74
fluoridated communities, 82
food, 7, 15, 16, 79
gladiolus leaves, 73
grass, 131, 132
herbs, 131, 132
insects, 135
milk, 79
osteoporosis, 123-125
processed food, 79
soil, 16, 34
teeth, 154
tobacco leaves, 73
urine, 151-153
vegetables, 79
vegetation, 131
water, 111, 251
intoxication, acute, 68, 69
metabolism, 80, 81, 252
organic, 189, 214, 217
plants, 80
uptake in
firs, 74
food, 79, 82
humans, 78-83
adolescents, 81
infants, 80
urinary excretion, 16, 149
Fluoroacetamide poisoning, 215-224
Fluoroacetate, 106, 189, 194, 210
Fluoroacetate (cont.)
distribution in rats, 227
effect on heart, 246
glycogen, 235, 236
respiration of plants, 203
plants, 204, 205, 216
in
oatmeal, 204
sheep, cattle, 246
tea, 204
metabolism, 195-202, 224-239
plants treated with, 208
synthesis in plants, 213
toxicity, 191, 217, 218, 246
Fluoroacetate poisoning, 224-245
antidote, 191, 221
diagnosis, 219
acetoacetate formation, 233
adenosine triphosphate, 229
in different animals, 238, 239
effect on heart, 246
glycogen depletion, 235, 236
ketone bodies, 232, 233
lactate accumulation, 234
pathology, 218
symptoms, 216-218
Fluoroacetone, 190
Fluorocarbon
breathing, long-term, 101
liquids, 85, 86
effect on lung tissue, 104
properties of, 87, 95
Fluorocitric acid, 191,194, 197, 204, 205, 209, 210, 220
Fluoroethane, 190
Fluorooleic acid, 189
Fluoropyruvate, 189
Fluorosis, 71, 89
Fluorosis, endemic
age-related, 10
calcium
balances, 149, 199
excretion, 147
calcium diet in, 143
complications of, 13
dental (see Dental fluorosis)

Fluorosis, endemic (cont.)
economic status in, 13, 15
exostosis, 6, 252
in children, 143-154
industrial, 122
kidneys in, 18, 66
laboratory data, 149
in Punjab, 4, 106-112
related to drinking water, 4-18
renal failure in, 62, 63
sex distribution of, 15
in adults, 6
factors modifying, 7, 9
symptomatology, 147, 148
urinary fluoride excretion, 16, 149
water quality, 5, 14
Fluoroxene, 43, 44
Flydust, effect on nose, 149
Food, fluoride content, 79
Forane, 44

Gallium fluoride poisoning, 254
Gifblaar (see Dichapetalum cymosum)
Gladiolus leaves
fluoride content, 73
Glucose, serum, 235, 236
Glycogen, 235, 236, 237, 241
Goiter, endemic, 120
Grass, fluoride content, 130, 131

Halothane
effect on kidneys, 121
metabolism, 42
toxicity of, 44
Hexaphosphate of myo-inositol, 153, 156, 158
Hydrochloric acid, effect on leaves, 36
Hydrofluoric acid
absorption, 153
effect on
plants, 33
upper air passages, 141
inhalation, 152
mutagenic effect, 180
treatment of plants, 215
Hydroxyproline, 200
Hyperparathyroidism, 124

Insects, fluoride content, 135

Ketone, 232, 233
Kidney function in
fluorosis, 18, 66
halothane anesthesia, 121

Laboratory data in fluorosis, 147
Lactate, 234
"Lethal Synthesis", 191, 204
Lead,organic
compared to organofluorides, 245, 247

Malic dehydrogenase, 204
Methoxyflurane, 43, 45, 121
Milk, fluoride content, 79
Mitochondria, 229, 230, 232, 238-240
synthesizing citrate, 229
Monoacetin, 191, 221
Mongolism, 17
Montana, fluoride pollution, 127
Mutagenic effect of fluoride, 179, 180

Nasal mucosa
after exposure to HF, 138-141
Netherlands, fluoridation, 49-63
Nitrose gases
effect on leaves, 36
Nucleic acid, 157, 160
Nutrition
in FAC poisoning, 247
in fluorosis, 12

Organic acids
in fluoride treated plants, 206, 208
Organic fluorides in kidneys, hearts of horses, cows, 213
Osteopathy (see Fluorosis, skeletal)
Osteoporosis, 119, 123-125
Oxalates in methoxyflurane poisoning, 46
Ozone, 37

Palatal development and fluoride, 185, 186
Parathyroid hormone, 183
Perfluorochemicals, 71, 72, 89
Phosphates, inorganic, 150, 158, 238
effect on bones, 118

Phytase
in fluoride treated corn seedlings, 170-173
Pine needles, fluoride damage, 134
Placenta, 67
Plants, susceptibility to fluoride, 136
Punjab
dietary survey, 13
fluorosis in, 4, 106-112
water supplies, 5

Radiography in fluorosis, 8, 144, 145
Rhinitis atrophic, 138-142
Ribonuclease, corn roots, 175
Ribosomal proteins, 169, 170
Ribosomes
amounts of fluoride treated roots, 167-170
fluoride effect, 174

S-carboxymethylglutathione, 201
Smog, 38
Sodium fluoride
acute intoxication, 68, 69
mutagenic effect, 114, 116
Stannous fluoride
mutagenic affect, 115, 116
Sulfur dioxide, 35

Tar, effect on leaves, 37
Teeth
fluoride content, 188, 248, 251
in endemic fluorosis, 109, 111
in experimental fluorosis, 154
loss of, 5
Teflon, 106
Tiel, caries incidence, 49-63
Tobacco leaves, fluoride content, 73
Tricarboxylic acid cycle, 197, 225, 228, 240
Trifluoroacetic acid, 44

Vegetables, fluoride content, 79
Vicia Fava seeds, 154-160
Vitamin D
effect on fluoride metabolism, 252